



***The ENZYME Company***

Enzyme	Prototype	Recognition Sequence	Cat #	Package, u.a.
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<b>PspOM I</b>	Apa I ( )	G <sup>^</sup> GGCCC G <sup>^</sup> GGCCC		
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Lot-number:	Assayed:

<b>Origin</b>	Pseudomonas species OM2164
<b>Concentration</b>	10000-50000, u.a./ml
<b>Storage conditions</b>	20 mM Tris-HCl (pH 7.5); 50 mM KCl; 0,1 mM EDTA; 1 mM DTT; 200 ug/ml BSA; and 50% glycerol. Store at -20°C.
<b>Ligation</b>	After 40-fold overdigestion with enzyme more than 95% of the DNA fragments can be ligated and recut.
<b>Non-specific activity</b>	No nonspecific activity was detected after incubation of 1 ug of DNA with 100 u.a. of enzyme for 16 hours at 37°C.
<b>Optimum temperature</b>	37 °C
<b>Inactivation 20 minutes under 65 °C</b>	Yes
<b>Optimum SE-buffer</b>	<b>Y</b> (33 mM Tris-acetate (pH 7.9 at 25°C); 10 mM magnesium acetate; 66 mM potassium acetate; 1 mM DTT.)

**Enzyme activity in % of maximum :**

B	G	O	W	Y
75 - 100	10 - 25	0 - 10	0 - 10	100

**Note:** The minimum number of units that resulted in complete digestion of 1 ug of substrate DNA in 16 hours is 0,13.

**References:** Belichenko, O.A., Shevchenko, A.V., Abdurashitov, M.A., Degtyarev, S.Kh. Unpublished observations (1994).

<b>Unit-definition</b>	One unit of the enzyme is the amount required to hydrolyze 1 µg of DNA in 1 hour in a total reaction volume of 50 µl. Concentrated enzymes are diluted to approximately 1000 units/ml with the buffer (10mM Tris-HCL (ph7.6); 50 mM KCL; 0,1 mM EDTA; 1 mM DTT; 200 µg/ml BSA; 50% glycerol) before determining their activity.
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